

ABSTRACT

Method and device for producing a metallic coating
 on an object emerging from a bath of molten metal.

The present invention relates to a method of producing a metallic
 coating on an object (4) emerging from a bath of molten metal
 (5). The object can for example be a wire or a plate. A magnetic
 field is created near the point of exit of the object. The object
 leaves the bath of molten metal via an exit channel (3)
 containing a meniscus of the said bath of molten metal. The
 thickness of the metallic coating is controlled as a function of
 the second derivative of the curve of the meniscus (6) and of a
 capillary number Ca representing the ratio between the viscous
 forces of the molten metal and the forces of surface tension at
 the surface of the molten metal.

See Figure 1